

# EUROPEAN PATENT OFFICE

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Patent Abstracts of Japan

PUBLICATION NUMBER : 2003089880  
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APPLICATION NUMBER : 2001279781

APPLICANT : GANTAN BEAUTY IND CO LTD;

INVENTOR : TAMANOI HIDEO;

INT.CL. : C23C 22/52

TITLE : PATINA COLOR EMITTING COMPOSITION LIQUID AND PATINA FORMING METHOD

ABSTRACT : PROBLEM TO BE SOLVED: To provide a patina color emitting composition liquid which acceleratively forms patina on copper or a base material formed by dispersing and solidifying the copper or a base material formed with a copper oxidized film and a patina forming method.

SOLUTION: The patina color emitting composition liquid prepared by compounding cupric chloride and sodium carbonate with an aqueous solution of one or ≥2 kinds selected from sodium chloride, aluminum chloride, zinc chloride and tin chloride and this liquid is applied onto the copper or the base material formed by dispersing and solidifying the copper or the base material formed with the copper oxidized film and is subjected to brushing, by which the composite type artificial patina of the basic cupric chloride and the basic copper carbonate is formed.

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YANAGIMACHI KOJI  
TAMANOI HIDEO**(54) PATINA COLOR EMITTING COMPOSITION  
LIQUID AND PATINA FORMING METHOD**

## (57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a patina color emitting composition liquid which acceleratively forms patina on copper or a base material formed by dispersing and solidifying the copper or a base material formed with a copper oxidized film and a patina forming method.

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carbonate with an aqueous solution of one or ≈2 kinds selected from sodium chloride, aluminum chloride, zinc chloride and tin chloride and this liquid is applied onto the copper or the base material formed by dispersing and solidifying the copper or the base material formed with the copper oxidized film and is subjected to brushing, by which the composite type artificial patina of the basic cupric chloride and the basic copper carbonate is formed.

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